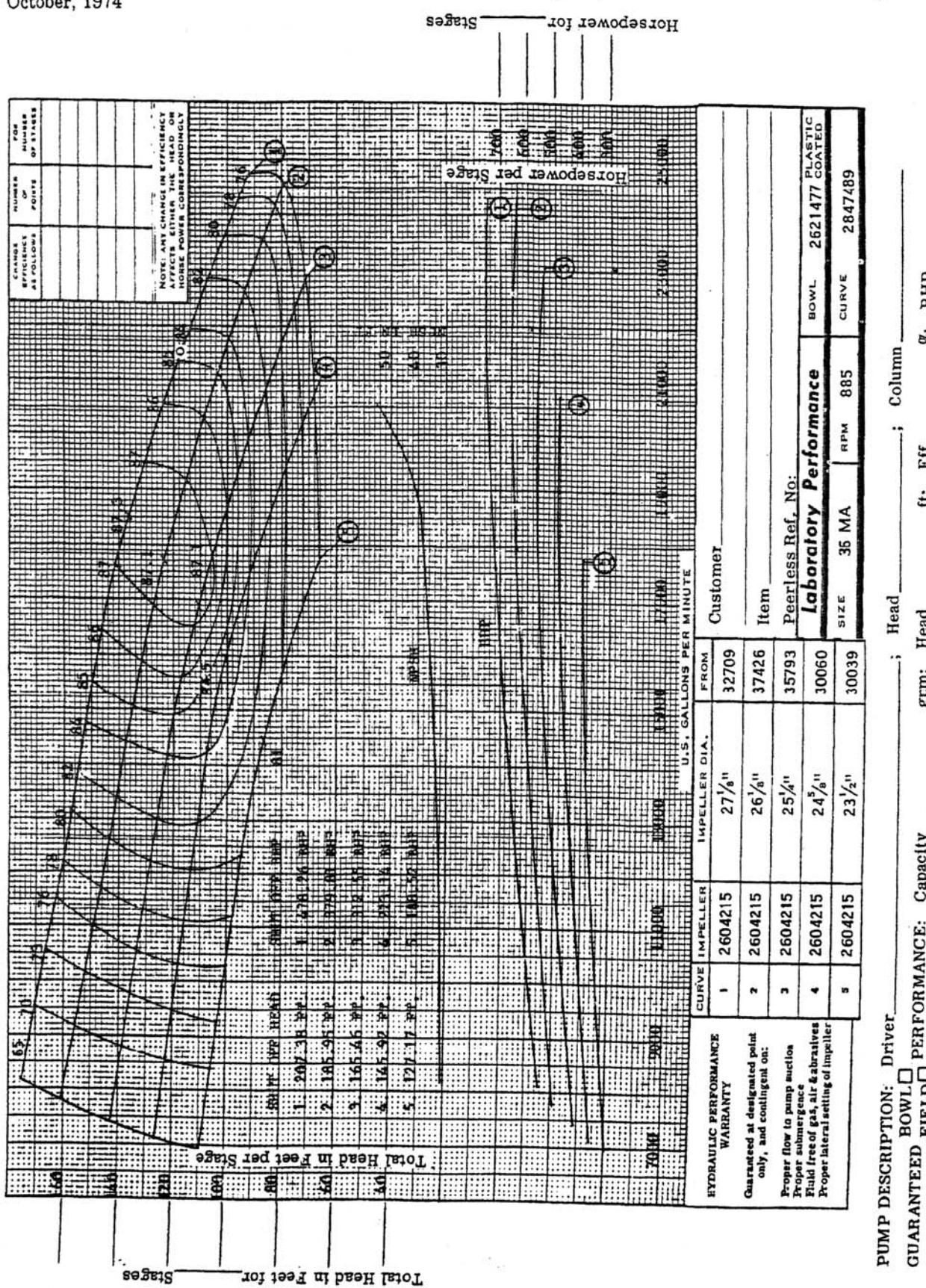


ATTACHMENT J
Injection Well Station - Sample Curves

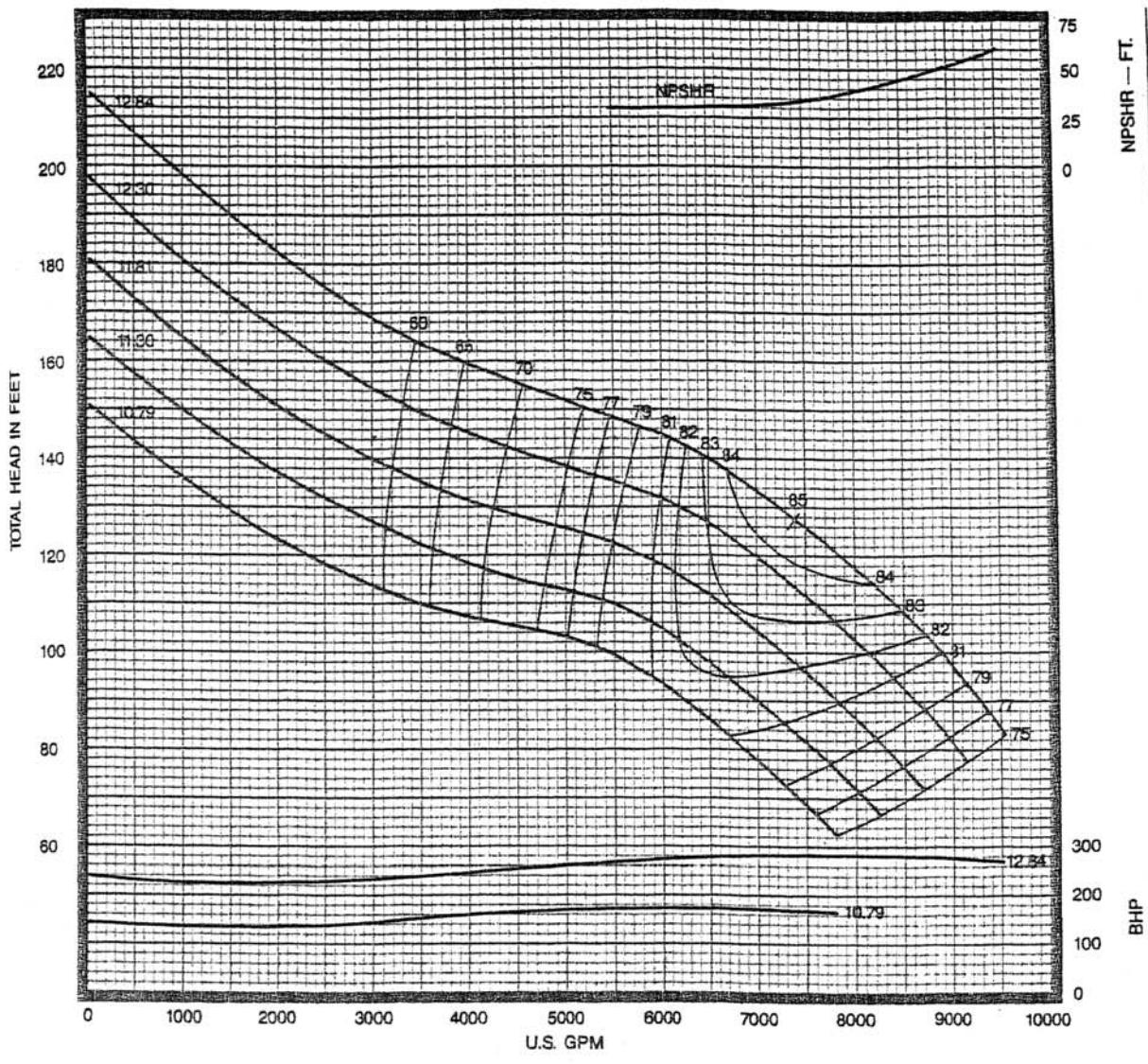
VERTICAL TURBINE PUMPS
Model 36MA - 885 Rpm

Peerless Pump Company
Indianapolis, IN 46207-7026



**VERTICAL TURBINE PUMPS
SINGLE STAGE PERFORMANCE**

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EFFICIENCY CORRECTIONS₍₁₎

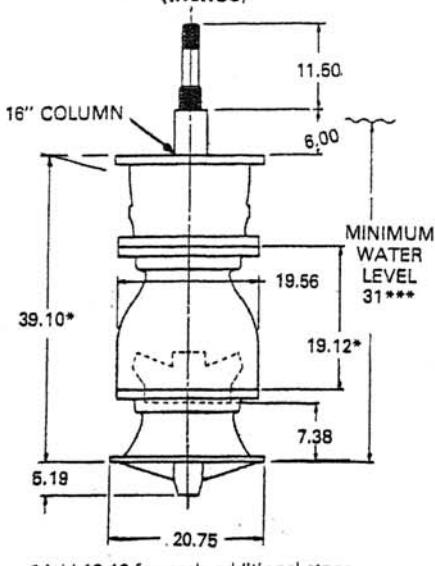
NUMBER OF STAGES	EFFICIENCY CHANGE
1	-2.5 POINTS
2	-1.5 POINTS
3	-0.5 POINTS
4	NO CHANGE
5	NO CHANGE
6	NA

BOWL MATERIAL	EFFICIENCY CHANGE
CAST IRON	-2.0 POINTS
ENAMELED C.I.	NO CHANGE

IMPELLER MATERIAL	EFFICIENCY CHANGE
CAST IRON	1.0 POINTS
BRONZE	NO CHANGE
ENAMELED C.I.	NO CHANGE

Refer to "Application and Reference Data" for head correction.

**DIMENSIONS
(Inches)**



*Add 19.12 for each additional stage.

TECHNICAL DATA

DATA	VALUE
MAXIMUM OPERATING SPEED	1800 RPM
MAXIMUM NUMBER OF STAGES	5 **
IMPELLER SHAFT DIAMETER	2 1/8 IN.
IMPELLER EYE AREA	77.5 SQ. IN.
MAXIMUM SPHERE SIZE	1.62 IN.
K _t (THRUST FACTOR)	28.49 LBS./FT.
K _a (ROTOR WT. PER STAGE)	88 LBS.
BOWL WT. (FIRST STAGE)	900 LBS.
BOWL WT. (EACH ADD'L. STAGE)	435 LBS.
ALLOWABLE SHAFT STRETCH	.94 IN.**
W _K ² (FIRST STAGE)	16.93 LBS.-FT. ²
W _K ² (EACH ADD'L. STAGE)	16.76 LBS.-FT. ²
BOWL RING CLEARANCE	.022/.028 IN.

** These are nominal values. Refer to "Application and Reference Data" for information further limiting or extending these values.

*** This value is the minimum submergence required to prevent vortexing only. This value may need to be increased to provide adequate NPSHA.

FAIRBANKS MORSE PUMPS

VERTICAL TURBINE PUMPS
Model 20HXB - 1785 Rpm

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